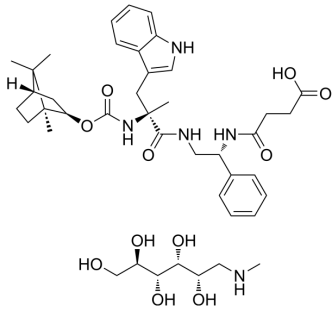
PD 135158

Cat. No.:	HY-129810
CAS No.:	130325-35-8
Molecular Formula:	$C_{42}H_{61}N_5O_{11}$
Molecular Weight:	811.96
Target:	Cholecystokinin Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PD 135158 (CAM 1028) is a selective CCK_B receptor antagonist with an IC_{50} of 2.8 nM against mouse cortex CCK_B. PD 135158 shows anxiolytic activity[1].

IC_{50} & Target	CCKBR	CCKAR
	2.8 nM (IC_{50})	1232 nM (IC_{50})

In Vivo

PD 135158 (CAM 1028; 0.001-0.1 mg/kg; s.c.; once) enhances latent inhibition in the rat and shows antipsychotic potential[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male Sprague-Dawley rats, conditioned suppression of drinking procedure model[2]
Dosage:	0.001, 0. 01, and 0.1 mg/kg
Administration:	0.2 mL/kg SC 30 min before prexposure and conditioning
Result:	Elicited a clear latent inhibition effect under conditions that did not lead to latent inhibition in control rats.

REFERENCES

[1]. Hughes J, et al. Development of a class of selective cholecystokinin type B receptor antagonists having potent anxiolytic activity. Proc Natl Acad Sci U S A. 1990 Sep;87(17):6728-32.

[2]. Gracey DJ, et al. PD-135,158, a cholecystokinin(B) antagonist, enhances latent inhibition in the rat. Pharmacol Biochem Behav. 2000 Mar;65(3):459-63.

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